

Telephone Directory

A contacts database for the HP-28S

HEWLETT-PACKARD 28S · C. 1989 · NOTEBOOK PAGES 11-16

SETUP · VIEW · FIND · ADD · DEL · PRINT

THE MANUAL

These programs are designed to allow the user to keep a handy telephone directory on the 28S. The programs are all interactive with each other so it is necessary to enter them all in the calculator.

This database operates on four fields: first name, last name, phone number, and address, on the stack respectively. SETUP must be run before any of the others. It will create a file called PHONE that will contain all of the data used by the database. SETUP may also be run to clear the telephone directory and start over.

Following is a list of the programs and what they actually do:

SETUP

sets up a file containing the necessary data to be used.

VIEW

uses a search number (1-4) to find an entire field and allows the user to choose an entry in this field to search by.

FIND

uses a search number (1-4) and an entry found previously by executing VIEW, and finds the corresponding entries that were stored with the entry.

ADD

uses four entries from the stack (first name, last name, phone number, address) and stores them in the data file.

DEL

uses four entries from the stack (same as ADD) and deletes, or purges, them from the data file.

PRINT

prints all of the entries in the order that they were entered on an HP infrared printer.

Example 1: ADDing

Put the first name, last name, phone number, and address on the stack (all in quotes) and run ADD.

```
4: "JOHN"  
3: "DOE"  
2: "123-4567"  
1: "505 WHAT ST."
```

ADD

Example 2: VIEWing and FINDing

Put a search number on the stack corresponding to what is to be searched by:

```
3:  
2:  
1:      2
```

1 = first name
2 = last name
3 = phone number
4 = address

VIEW

A list of last names will now appear in the boxes on the bottom of the screen. Press NEXT to scroll through the last names. Choose the last name to be searched by, by pressing the key corresponding to the right box. Now press USER to return to the program menu and then execute FIND.

```
3:  
2:      2  
1:      "DOE"
```

FIND

The first persons with the last name DOE will be searched for and shown on the screen. Press ENTER to search for another person with last name Doe. If there are no more Does, the program will end.

THE PROGRAMS

```

SETUP
« CLLCD
  "  SETUP NEW 'PHONE'" 2 DISP
  "  FILE...[Y/N] ?" 3 DISP
DO
  UNTIL KEY
  END "Y" SAME
  IF 1 SAME
  THEN { } 'PHONE' STO ABORT
  ELSE ABORT
  END
»

VIEW
« → s
  « 'PHONE' RCL LIST→ → d
    «
      IF d 0 ==
      THEN CLEAR
      ELSE 1 d
        START s GET d ROLLD
        NEXT d →LIST MENU s
      END
    »
  »
»

FIND
« → s n
  « 'PHONE' RCL LIST→ → l
    « 1 l
      START DUP s GET
      IF n ≠
      THEN DROP
      ELSE LIST→ DROP CLLCD 4 DISP 3 DISP " " SWAP + + 1 DISP
      DO
        UNTIL KEY
      END DROP
      END
    NEXT CLMF
  »
»
»

ADD
« 4 →LIST 1 →LIST 'PHONE' RCL SWAP + 'PHONE' STO
»

DEL
« 4 →LIST 'PHONE' RCL DUP 3 ROLLD SWAP POS SWAP DUP SIZE 3 ROLL → p s
  « LIST→ 1 + p - ROLL DROP s 1 - →LIST 'PHONE' STO
  »
»
```

```
»
»

PRINT
« 'PHONE' RCL LIST→ 1 SWAP
  START LIST→ DROP CLLCD 4 DISP 3 DISP " " SWAP + + 1 DISP PRLCD CR CR
  NEXT CR CR CLMF
»
```

NOTES ON THIS EDITION

1. In the last paragraph, “All of the persons” is struck out and “The first” written in above it. The corrected reading is the one set here.
2. The notebook page numbered 15 is a duplicate photocopy of page 14 and is not reproduced.
3. Corrected here, and visible uncorrected in the scan: “scroll thru” → “scroll through”; “no more Doe’s” → “no more Does”; a comma added after “searched by”.

The notebook is the manuscript — handwritten, photocopied, and reproduced exactly as scanned at michaelsmorrison.com/downloads/hp28s/telephone-directory-notebook.pdf. This is the edited edition. The wording and the voice are the manuscript’s and the program listings are unaltered; where the prose has been corrected, the notes above say what was changed, so the two can be held against each other.